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BOX PATENT APPLICATION
Assistant Commissioner for Patents
Washington, D.C. 20231



Re: Filing of New U.S. Utility Patent Application
Title: *System and Method For Linked Account Having Sweep Feature*
Inventors: **Jeffrey L. HIRKA** and **Steven J. FOX**

Dear Sir:

Attached is a new patent application for filing in the United States Patent and Trademark Office including seventeen (17) pages of Specification, nine (9) pages of Claims (numbered 1-47), one (1) page Abstract, seven (7) sheets of Drawings (labeled Figs. 1-5), and an executed Joint Declaration, Assignment and an Information Disclosure Statement with Form PTO-1449.

The filing fee is calculated as follows:

				AMOUNT
BASIC FILING FEE				\$690.00
No. of Claims		No. in Excess	Rate	
Number of Claims in Excess of: 20	47	27	\$18.00	486.00
Independent Claims in Excess of: 3	2	0	\$78.00	.00
First Presentation of Multiple Dependent Claims			\$ 130.00	
Reduce by 1/2 for Small Entity				
Assignment Recordation Fee				40.00
TOTAL FEE DUE				\$1,216.00



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A check in the amount of \$1,126.00 is attached to cover the basic application filing fee, additional claims and Assignment recordation fees. In the event of any variance between the amount enclosed and the Patent and Trademark Office charges, please charge or credit any difference to the undersigned's Deposit Account No. 50-0206.

Please direct all communication concerning this application to:

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Respectfully submitted,

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**SYSTEM AND METHOD FOR LINKED ACCOUNT HAVING
SWEEP FEATURE**

FIELD OF THE INVENTION

5 The invention relates generally to electronic commerce, and more particularly to a linked account that allows cardholders to apply funds in a cash demand deposit account or other account to transactions with a credit card, in a manner which allows these transactions to be automatically reconciled against the cash account on a daily or other basis.

10

BACKGROUND OF THE INVENTION

 The consumer credit industry has played a significant role in electronic and other commerce. Millions of Americans use traditional bank-sponsored credit cards, private merchant sponsored cards, debit cards, stored value cards, combinations of those instruments and other accounts for retail, Internet and other purposes. Credit cards in particular offer conveniences and advantages, successfully attracting consumers who wish to simplify their shopping experience by leaving their cash and checkbooks behind. Rewards programs also enhance credit card usage.

20 Despite the convenience of credit cards, many individuals may prefer to avoid using them. For example, some individuals may be reluctant to use credit cards because they are averse to outstanding account balances, and wish to avoid interest charges on their purchases. Other consumers may prefer to avoid the temptation of purchasing power in excess of their immediate ability to pay.

25 Yet other consumers may desire credit access, but are denied that access due to past credit history.

 For these and other reasons, cash accounts such as bank debit cards have emerged to service consumer needs. A debit card is a card that may be linked to a consumer's cash account, such as a demand deposit account (DDA), typically

30 a checking account. When the consumer wishes to make a purchase from a

merchant, the debit card is swiped at the point of sale as a credit card would be, except the funds used to pay the merchant are deducted from the cardholders checking account rather than paid from a third party credit network. The need to carry a checkbook is eliminated, while concerns regarding credit cards are avoided.

There are, however, disadvantages to debit cards as a payment instrument. First, not all banks offer debit cards. This forces potential debit card users to open accounts elsewhere if their banks do not offer this service. Second, a consumer may not have time to keep track of precise balances on their cash account, so that the cash balance on the debit card or other instrument may be used up unknowingly.

Thus, some debit cards offer overdraft protection in the form of a secondary line of credit. A checking account accessible with a debit card, for example, may be backed by a credit line for use in the event that there are insufficient funds in the checking account to cover a purchase.

Once a person has exceeded their available cash balance and invoked the credit line, they can continue to make purchases until they have maxed out this secondary credit line. This may occur without the consumer becoming aware of that status until the limit is reached, when repayment may be more difficult.

Further, in some instances, debit card users may not be offered the same type of rewards that credit card users are eligible for.

A need therefore exists for a versatile financial instrument that permits consumers to make purchases with the funds being drawn from a desired demand deposit account held at any financial institution.

Additionally, a need exists for consumers to have a more controlled access to an overdraft credit line.

A need also exists for an instrument that will attract reluctant consumers by offering them the ability to make purchases by drawing funds from a demand deposit account, while earning points or credits toward various rewards. Other

problems exist.

SUMMARY OF THE INVENTION

The invention solving these and other problems relates to a system and
5 method for a linked account having a sweep feature, enabling individuals to
purchase goods and services from a merchant using a cash account backed by a
credit account, but with overdrafts being reconciled automatically on a daily or
other basis.

According to one embodiment of the invention, a user may receive a
10 linked account instrument that is linked to a cash account, such as a demand
deposit account (DDA) already held by the user. The consumer may be
assigned a predetermined cumulative limit or maximum daily "open to buy"
amount that limits the dollar amount of goods and services that may be
purchased against that account, which limit may be independent of the actual
15 cash balance in the account. Purchases can be made by swiping the instrument
(for example, an encoded card) at a merchant point of sale (P.O.S.) terminal or
other site. The merchant may receive an instantaneous authorization decision
from an authorization server via a processing network.

At a predetermined time each day, transactions made using the linked
20 account card may first be processed against the user's designated cash account.
The cash account may be examined to determine whether there are sufficient
funds to satisfy the charges incurred by the cardholder that day.

If sufficient funds are found in the cash account, the aggregate
transaction amount may be withdrawn from that account and deducted against
25 the sweep card's daily "open to buy" amount.

If the cash account does not have sufficient funds to cover the aggregate
transaction amount, the cardholder's ability to make additional purchases may
be suspended. In this case, any transactions causing the aggregate transaction

amount to exceed the cash account balance may be processed as a credit charge against a linked credit account, in overdraft fashion.

After the placing of the overdraft on the credit account, a check or sweep may be automatically made against the cash account at 12:01 a.m. the next day or other later time to check for sufficient funds to cover the extended overdraft credit. If sufficient cash account funds are present at the time of a subsequent sweep, the funds may be withdrawn from the cash account and the charge on the credit account may be cleared. The cardholder may be charged a fee for the use of the credit account.

If the first sweep of the cash account does not find sufficient funds to satisfy the outstanding overdraft amount on the credit account, the linked account card privileges may remain suspended and interest charges may accrue on the outstanding credit card balance until satisfaction is made.

One advantage of the invention is the ability of a cardholder to set up a cash account of their choice to make purchases, and have the funds withdrawn from one or more of demand deposit or other accounts, regardless of the institution holding the account. This allows consumers to benefit from card purchases even if their bank does not offer traditional debit-card services.

Another advantage of the invention is the flexibility of the collateral credit account. The consumer may use an existing credit account, open a credit account with the institution issuing the linked account card, or set up another type of account to supply the overdraft protection.

Yet another advantage of the invention is the ability to perform a series of automatic sweeps of the cash account in search of adequate funds. If adequate funds become available during one of the subsequent sweeps, they may be withdrawn from the cash account and the credit account may be cleared at the earliest possible opportunity. This provides advantages over a traditional debit card account, where a cardholder may have to pay off the overdraft by visiting the bank or mailing a check to the bank.

Conversely, regardless of the constituent accounts, the institution issuing the linked account card is presented with several options for handling necessary overdrafts. Based on past credit history, for example, a cardholder may be given the privilege of continuing to draw from the available line of credit without having the card privileges suspended. If a cardholder's credit history does not indicate such a feature, or if the consumer declines such a feature, the issuing institution may constrain the cardholder by suspending card privileges if a predetermined number of sweeps do not find adequate funds in the cash account.

Additional features and advantages of the invention will be apparent from the description that follows, or may be learned by practice of the invention.

BRIEF DESCRIPTION OF THE DRAWINGS

The invention will be described with respect to the accompanying drawings, in which like elements are referenced with like numbers.

Fig. 1 is a schematic diagram of a system supporting a linked account card according to an embodiment of the invention.

Fig. 2 is a flowchart which illustrates the establishment of a linked account card account according to an embodiment of the invention.

Fig. 3 is a flowchart which illustrates a process of authorizing transactions made with a linked account card according to an embodiment of the invention.

Fig. 4a is a flowchart illustrating the settlement of transactions initiated through use of a linked account card, according to an embodiment of the invention.

Fig. 4b is a graphical representation of one example of the settlement of transactions initiated through use of a linked account card, according to an embodiment of the invention.

Fig. 4c is a graphical representation of one example of the settlement of transactions initiated through use of a linked account card, according to an embodiment of the invention.

Fig. 5 is a flowchart illustrating overall processing according to the invention, in another regard.

DETAILED DESCRIPTION OF PREFERRED EMBODIMENTS

Figure 1 illustrates a schematic overview of various components of a transaction architecture supporting the use of a linked account according to the invention. A linked account instrument (not shown, for instance a magnetically encoded plastic card similar to a credit card or ATM card) may be provided to consumers to access funds in an existing cash account 160 such as a DDA held at a financial institution, such as a bank or savings and loan, or other institution.

Transactions may be initiated by swiping the linked account card at a point of sale (P.O.S.) terminal 110 when purchasing goods and/or services from merchants, or via other mechanisms such as telephone or Internet remote authorizations against the linked account card.

The merchant seeks authorization for each transaction from an authorization server 130 through a processing network 120, such as through the VISA™, MASTERCARD™ or other network which may adapted for transaction processing against a debit card or other cash account.

The authorization server 130 may be maintained by the institution that issues the linked account card and may include an account information database, an account balance database, and/or a transaction history database and other components. The authorization server 130 may be provided with a first interface 136 to the cash account 160, and a second interface 138 to the credit account 140. Transactions made using the linked account card may be first processed against the cash account 160 designated by the cardholder, via an automated clearing house (ACH) 150. If the cash account 160 does not contain

adequate funds and the authorization is rejected, the authorization server may temporarily suspend use of the card and process the transactions as a credit charge against a credit account 140. This credit account may also be designated by the cardholder, and act as an overdraft account protecting the cash account 160.

One or more sweeps against the cash account may be automatically performed at a later time to check for sufficient funds to satisfy the overdraft amount charged to the credit account 140. If sufficient funds are present in the cash account 160 at the time of a subsequent sweep, the funds may be withdrawn and applied to the credit account 140 to clear that account. The consumer may incur a fee for the use of the credit account 140. If subsequent sweeps of the cash account do not find sufficient funds, the linked account card privileges may remain suspended and the cardholder faces accumulating interest charges on the outstanding credit card balance.

The account transaction system according to the invention in one regard will be described in additional detail below.

Setting up the Account

Figure 2 illustrates steps that may be followed when establishing a linked account card account according to one embodiment of the invention. Potential linked account cardholders may be identified through known marketing solicitation techniques, illustrated at step 210. These potential cardholders, or applicants, may be required to complete an application in step 220 requesting information pertaining to their financial history.

In step 230, the potential cardholder's application may then be processed by the institution that issues the linked account card. This results in a determination of the applicant's eligibility to receive a linked account card. Credit decisioning may be handled through known services, such as the Magnum™ engine or the like. If a negative decision is made, in step 240 the

applicant may be denied a linked account card. If the applicant is approved, at least two additional pieces of information may be required.

First, as illustrated in step 250, a potential cardholder may be asked to designate a demand deposit account (DDA) or other backing account that will provide the cash funds for purchases made with the linked account card. The designated cash account may be a checking account, a savings account or other account held at a bank or other institution. In an alternative embodiment discussed below, more than one cash account may be selected to provide the cash or cash equivalent for transaction processing.

A second item that a potential cardholder may be required to provide in step 250 is a designated credit or other account to handle overdrafts. This may be an existing credit card or other account. If the linked account cardholder does not already have an existing credit account, one may be established through the institution that is issuing the linked account card. Once these accounts have been identified, they may be verified before the linked account card account is established in step 260.

Finally, in step 270 the linked account card itself may be mailed to the new cardholder along with the materials explaining the nature of the account. Upon receiving these materials, the cardholder may call a voice response unit (VRU) or other facility to activate the card, as illustrated in step 280.

The linked account card provided to the cardholder may bear a VISA™, MASTERCARD™ or other acceptance mark. The linked account card may have a daily spending limit, which may be referred to as an "open to buy" amount. This means that, on any given day, the cardholder will only be able to purchase goods and services up to that dollar amount, regardless of the cardholder's cash balance.

This daily spending limit or "open to buy" amount may be determined by the credit history information received during processing of the cardholder's application or otherwise. The daily spending limit may also be monitored on a

daily basis by the authorization server 130 maintained by the card-issuing institution.

Authorizing transactions

5 Figure 3 illustrates a process of authorizing purchases that the cardholder wishes to make using the linked account card according to an embodiment of the invention.

10 In step 310, the cardholder may present the linked account card to the merchant. In step 316, the merchant may request authorization from an authorization server through a processing network, such as the VISA™, MASTERCARD™, or other network. The authorization server 130 determines in step 340 whether the transaction may authorized. This determination may depend in part on whether the cardholder's daily cumulative spending limit or "open to buy" amount has been reached.

15 If it has, the authorization server 130 may not authorize the transaction. If the daily spending limit has not been reached, the authorization server 130 may authorize the transaction. The authorization server 130 may also process authorizations against this "open to buy" amount using business rules established by the institution issuing the linked account card, along with other
20 financial rules.

 If the transaction is not authorized, in step 380 the merchant may be notified and the cardholder may abandon the purchase or select another form of payment, as illustrated in step 390.

25 If the transaction is authorized, in step 350 the authorization server 130 may keep a record of what amount of the daily spending limit has been used by the purchase. In step 360, the merchant may be notified that the transaction has been authorized, allowing the cardholder to receive the goods or services purchased in step 370.

If the cardholder wishes to make another purchase using the linked account card, the process may be re-entered at step 310. Otherwise, the process flow illustrated in Fig. 3 may end at step 376.

5 Settling transactions

Subsequent to the completion of an authorized transaction, the merchant may issue a settlement request, as illustrated by step 402 in Fig. 4a. Such a request may be sent to the merchant's sponsoring bank or financial institution, through a processing network 404, such as the VISA™, MASTERCARD™, or
10 other network which may be adapted for transaction processing against a debit card or other cash account. At step 406, the merchant's sponsoring bank or financial institution may pay the merchant, while simultaneously sending a request for payment to the institution 408 that issued the linked account card. As illustrated in step 410, the card-issuing institution 408 may then settle with the
15 merchant's sponsoring bank or financial institution through an automated clearing house (ACH), as appreciated by persons skilled in the art.

Aside from settlement with the merchant's sponsoring bank, the card-issuing institution 408 has to settle with the cardholder. For each transaction initiated with the linked account card, individual automated clearing house
20 debits may be generated which contain the unique merchant identification in the descriptor field such that the merchant identification appears on the cardholder's cash account statement.

At a predetermined time, such as at, near or just after the end of each day, the cardholder's designated cash account may be swept via an automated
25 clearing house to determine whether adequate funds exist to cover all of the day's charges accumulated through use of the linked account card. This is illustrated in step 412. At step 414, an inquiry may be made to determine whether the designated cash account has sufficient funds to cover all of the individual debits that were generated by the authorization server 130 in response
30 to the charges accumulated using the linked account card.

If adequate funds are present in the cardholder's designated cash account 160 at the time of reconciliation, the funds may be withdrawn from the cash account 160 in step 418 and the authorization server 130 may reset the daily spending limit to its full amount in step 422 for the following day.

5 If the designated cash account 160 does not have sufficient funds to cover the purchases at the time of the sweep, the authorization server 130 may draw the funds from the available credit on the credit account 140 that was designated by the cardholder as illustrated in step 426.

10 At this point, the authorization server 130 may be configured to temporarily suspend the cardholder's ability to make further purchases with the linked account card, in step 430. Step 430 will occur regardless of whether the daily spending limit or "open to buy" amount has been reached.

15 It may be noted that there are different variations possible when determining how the accumulated daily transactions will be added up and applied against the designated cash account 160.

In one embodiment, a FIFO (first-in, first-out) system may be used, wherein the daily charges will be applied against the cash account 160 in the order in which they were made. As soon as a debit is found that cannot be drawn from the cash account 160 due to insufficient funds, the credit account 20 140 may be applied to cover that particular charge, as well as any remaining charges up to a credit limit of that account.

25 Additionally, in another embodiment the sequence of daily charges may be applied against the cash account 160 based on the relative size of the transaction amount. For example, all of the smaller charges may be drawn against the cash account 160 first, leaving only the remaining larger charges that cannot be satisfied to be covered via the credit account 140. Conversely, the larger purchases may be drawn against the cash account 160 first, leaving only the smaller charges to be covered by the credit account 140 when funds in the cash account 160 become insufficient.

Another embodiment may be employed when the cash account 160 can only handle a percentage of a particular charge. For example, assume that charges are being applied against the cash account 160 during a sweep. If the cash account 160 reaches a point at which it can only cover a certain percentage of a charge being applied against it, the system may be configured to have the cash account 160 cover whatever percentage of the charge it can, only sending the shortfall to the credit account 140. Or, the system may be configured to have the entire charge be covered by the credit account 140.

According to the invention, and as seen in step 434, the cash account 160 may be swept again at a later time, such as 12:01 am on the next day, to determine whether or not the cash account 160 now contains sufficient funds as reflected in updated ACH activity.

This sweep may be performed in order to catch deposits that may have been made to the cash account 160 during the same day as the transaction activity, but not credited to the cash account 160 until the following business day. For example, the cardholder may have realized that a purchase was made with the card that could not be covered by the funds in the cash account 160. The cardholder may have rushed to deposit funds into the cash account 160 in order to ensure that the purchase would be covered, only to have the deposited funds be credited to the cash account 160 after the initial authorization attempt.

At step 438, another inquiry may be made to determine whether the cash account 160 contains adequate funds.

If there are now adequate funds in the cash account 160, the funds will be drawn from the cash account 160 in step 442, and the overdraft amount that was initially drawn against the credit account 140 may be cleared from the credit account 140 in step 446. The cardholder may incur a fee for the temporary use of the credit account in step 450, and the linked account card may be reactivated with the daily spending limit be replenished in step 422.

In the event that there are still inadequate funds in the cash account 160 when the second sweep is performed, the linked account card

account may remain suspended in step 454 until such time as the overdraft amount charged to the credit account 140 is paid off and there is a positive balance. The cardholder may then be subject to a fee, as well as any accumulating interest charges on the credit account. Again, this is unlike a typical debit card, where once a cardholder is forced to use the overdraft credit line, they may continue to do so until their line of overdraft credit is maxed out. In other words, conventional debit cards do not have the added safety feature of suspending the account and disallowing the user to accumulate more debt.

According to the invention, the cardholder may have access to their transaction history and daily spending limit information, via an interactive voice response (IVR) unit. This information may also be accessible through a website hosted by the card-issuing institution. Again, charges processed against the cardholder's cash account 160 may appear on the cardholder's monthly cash account statement as well.

In an alternative embodiment of the invention, two or more sweeps of the cash account may occur before requiring payment of the credit advanced in order to restore card privileges. In other words, the number of subsequent sweeps of the cash account 160 can be varied by the institution issuing the card.

Figures 4b and 4c illustrate settlement transactions initiated through use of a linked account card, according to an embodiment of the invention. Figure 4b illustrates an instance in which the linked account card 460 has been used to purchase goods and services which total a dollar amount 462 that is less than the card's "open to buy" amount 490. When the predetermined time (which may be near the end of the day) arrives for the sweep of the designated cash account 470, it is seen that the cash account 470 has an adequate balance 472 to cover the cost of the day's purchases. Accordingly, the funds can be withdrawn from the cash account 470, and no overdraft action against the credit account 480 is needed.

Figure 4c illustrates an example in which a cardholder has maxed out the "open to buy" amount 490 of the linked account card 460, by purchasing goods

and services in a graphically illustrated dollar amount 464 that exceeds the “open to buy” amount 490. In this example, when the predetermined time arrives for the sweep of the designated cash account 470, it is discovered that the balance 474 of the cash account is inadequate to cover the aggregate of the day’s purchases. At this point, the funds 482 that cannot be drawn from the designated cash account (the overdraft amount) may be drawn from the credit account 480. Additionally, the authorization server may temporarily suspend the cardholder’s ability to make further purchases with the linked account card.

It may be noted that there may be an instance in which the cardholder, on one day, reaches the maximum “open to buy” amount of the card, while having a zero balance in the designated cash account to cover the purchases. For this reason, the credit account may preferably have a credit line equivalent to the “open to buy” amount of the linked account card.

In an alternative embodiment of the invention, the institution issuing the linked account card may choose to allow a cardholder to continue to use the linked account card once the cash account 160 is found to have insufficient funds. The cardholder may be given the option of continuing to draw from the remaining credit line available on the collateral card. This may be a desirable option for individuals who desire a traditional debit card, however are unable to have one because their bank does not offer the service.

In another alternative embodiment of the invention, the linked account card may be linked to multiple cash accounts designated by the cardholder in order to allow each to be swept in search of sufficient funds before the credit account 140 is needed.

Figure 5 illustrates overall processing according to the invention, in another regard.

In step 502, marketing solicitation is performed in order to identify potential linked account cardholders. Interested applicants may be required to complete an application detailing certain information pertaining to their financial history. Processing the application, as illustrated in step 506, may

comprise the steps of identifying account options most suited for each particular applicant (step 510), and making a decision regarding the applicant's ability to satisfy the particular requirements of these options (step 514). If it is determined that the applicant is approved, they will be required to specify a demand deposit
5 account or other backing account that will provide the funds for purchases made with the linked account card. In step 518, the designated cash account may be verified and the cardholder's linked account card account may be created.

Upon furnishing the linked account card and the account materials to the new cardholder (step 522), the cardholder may activate the card by calling a
10 voice response unit (VRU), as seen in steps 526 and 530.

Each purchase or transaction that the cardholder wishes to make with the linked account card may be subject to authorization (step 534). When a cardholder desires to make a purchase, and presents the card to a merchant, the merchant may request authorization from an authorization server through a
15 payment network. This is illustrated in steps 538, 542, and 546, respectively. In step 550, the authorization server may check to see whether or not the daily "open to buy" amount of the linked account card has been reached. The results of this check, coupled with the adherence to pertinent financial rules, can result in the determination of whether or not authorization for the transaction will be
20 approved or denied (step 554).

Subsequent to the completion of an authorized transaction, settlement with the merchant occurs, as is illustrated in step 562. The merchant may make a settlement request which is sent to the merchant's sponsoring bank or financial institution, through a processing network. The merchant's sponsoring bank or
25 financial institution may pay the merchant, while simultaneously sending a request for payment to the institution that issued the linked account card. Settlement between the card-issuing institution and the merchant's sponsoring bank or financial institution may occur through an automated clearing house.

Aside from settlement with the merchant's sponsoring bank, the card-issuing institution has to settle with the cardholder. In step 566, the cardholder's designated cash account may be swept to determine whether adequate funds are present to cover all of the day's charges accumulated through use of the linked account card. Note that the cash account may be swept at any pre-determinable time, which may typically be near the end of the day. If there are adequate funds available in the designated cash account (step 570), the funds may be withdrawn from the cash account and the authorization server 130 may reset the daily "open to buy" amount to its full amount in step 572 for the following day.

If the designated cash account does not have sufficient funds (step 574) to cover the charges at the time of the sweep, the status of the account may be evaluated at step 576, and the cardholder's ability to make further purchases with the linked account card may be temporarily suspended. Additionally, the authorization server 130 may draw the necessary funds from the available credit account, as illustrated in step 580. The cardholder may be charged a fee for the use of this credit account (step 582). Finally, one or more subsequent sweeps of the designated cash account may occur, as illustrated by step 584. If adequate funds are present, they will be withdrawn from the cash account, and the credit account will be cleared. Otherwise, the daily purchasing abilities afforded the cardholder through use of the linked account card may continue to be suspended until the credit account is settled.

Communication with the cardholder (step 588) may take one or more forms. Statements of linked account card activity will be sent on a regular basis to the cardholder detailing each card transaction (step 590). Additionally, the cardholder may have access to their transaction history and daily spending limit information, via additional services (step 592) such as an interactive voice response (IVR) unit. This information may also be accessible through a web-site hosted by the card-issuing institution.

Other embodiments, uses and advantages of the invention will be apparent to those skilled in the art from consideration of the specification and practice of the invention disclosed herein. The specification should be considered exemplary only, and the scope of the invention is accordingly
5 intended to be limited only to the following claims.

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What is claimed is:

1. A system for processing electronic transactions, comprising:
a first interface to at least one cash account against which charges incurred through use of a linked account instrument are drawn;
5 a second interface to at least one credit account used to back said at least one cash account in the event of insufficient funds in said at least one cash account to cover the charges incurred through the use of the linked account instrument; and
an authorization server, communicating with the first interface and the
10 second interface, the authorization server authorizing individual transactions against a pre-determined cumulative limit on said at least one cash account, and performing sweeps of said at least one cash account at predetermined times to determine whether said at least one cash account contains sufficient funds to cover the charges incurred through use of the linked account instrument.
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2. The system of claim 1, wherein said at least one cash account comprises at least one demand deposit account.
3. The system of claim 1, wherein said at least one demand deposit
20 account comprises a plurality of demand deposit accounts.
4. The system of claim 1, wherein said at least one cash account may be held at any financial institution.
- 25 5. The system of claim 1, wherein said at least one credit account comprises a plurality of credit accounts.
6. The system of claim 1, wherein said at least one credit account may be held at any financial institution.

7. The system of claim 6, wherein said at least one credit account has an associated credit line at least equal to the predetermined cumulative limit.

5 8. The system of claim 1, wherein the authorization server comprises at least one of an account information database, an account balance database, and a transaction history database.

9. The system of claim 1, wherein individual automated clearing
10 house debits are generated for each transaction initiated with the linked account instrument.

11. The system of claim 9, wherein the automated clearing house debits are first processed against said at least one cash account via an automated
15 clearing house.

12. The system of claim 10, wherein the automated clearing house debits are processed against said at least one cash account in the order in which they were generated.

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13. The system of claim 10, wherein each automated clearing house debit is processed against said at least one cash account based on the relative size of its amount.

25 14. The system of claim 12, wherein the smallest debit amounts are processed against said at least one cash account first, leaving larger debits that cannot be satisfied by said at least one cash account to be processed against said at least one credit account.

14. The system of claim 12, wherein the largest debit amounts are processed against said at least one cash account first, leaving smaller debits that cannot be satisfied by said at least one cash account to be processed against said at least one credit account.

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15. The system of claim 10, wherein an entire debit amount is processed against said at least one credit account in the event that there are funds in said at least one cash account that can only cover a percentage of the debit amount.

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16. The system of claim 10, wherein a first percentage of the debit amount is processed against said at least one cash account, and a second percentage of the debit amount is processed against said at least one credit account in the event that there are funds in said at least one cash account that cannot satisfy the entire debit amount.

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17. The system of claim 1, wherein the predetermined cumulative limit is a daily limit, and the authorization server is configured to decline to authorize additional transactions attempted with the linked account instrument once the daily limit has been reached.

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18. The system of claim 17, wherein the authorization server is configured to cease authorizing transactions attempted with the linked account instrument if a first sweep of said at least one cash account finds insufficient funds to satisfy previous charges incurred through use of the linked account instrument.

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19. The system of claim 18, wherein said at least one credit account used to back said at least one cash account will be cleared if a subsequent sweep

of said at least one cash account finds adequate funds to satisfy those funds covered by said at least one credit account.

20. The system of claim 19, wherein the authorization server is
5 configured to refresh the pre-determined cumulative limit and authorize transactions after said at least one credit account has been cleared.

21. The system of claim 20, wherein a user of the linked account
10 instrument is charged a fee for use of said at least one credit account.

22. The system of claim 18, wherein the authorization server is
configured to continue to cease authorizing transactions attempted with the
linked account instrument if a predetermined number of subsequent sweeps of
said at least one cash account fail to find sufficient funds to satisfy the charges
15 incurred through use of the linked account instrument.

23. The system of claim 17, wherein the authorization server is
configured to continue to authorize linked account card transactions up to the
predetermined cumulative limit against available credit on the credit account,
20 even if a first sweep of the cash account finds insufficient funds to satisfy previous charges.

24. A method for accessing funds in at least one cash account,
comprising the steps of:

- 25 a) interfacing to an authorization server to authorize individual transactions initiated through use of a linked account instrument against a predetermined cumulative limit on said at least one cash account; and
- b) performing sweeps of said at least one cash account to determine
30 whether charges incurred through use of the linked account card can

be satisfied by funds in said at least one cash account, or charged against at least one designated backing credit account.

25. The method of claim 24, wherein said at least one cash account
5 comprises at least one demand deposit account.

26. The method of claim 24, wherein said at least one demand deposit account comprises a plurality of demand deposit accounts.

10 27. The method of claim 24, wherein step (a) further comprises the step of:

c) holding said at least one cash account at any financial institution.

15 28. The method of claim 24, wherein said at least one credit account comprises a plurality of credit accounts.

29. The method of claim 24, wherein step (b) further comprises the step of:

d) holding said at least one credit account at any financial institution.

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30. The method of claim 24, wherein step (b) further comprises the step of:

e) providing an associated credit line for said at least one credit account that is at least equal to the predetermined cumulative limit.

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31. The method of claim 24, wherein the authorization server comprises at least one of an account information database, an account balance database, and a transaction history database.

32. The method of claim 24, wherein step (a) further comprises the step of:

f) generating individual automated clearing house debits for each transaction initiated with the linked account instrument, and authorized by the authorization server.

33. The method of claim 32, wherein step (f) further comprises the step of:

g) processing the automated clearing house debits against said at least one cash account via an automated clearing house.

34. The method of claim 33, wherein step (g) further comprises the step of:

h) processing the automated clearing debits against said at least one cash account in the order in which they were generated.

35. The method of claim 33, wherein step (g) further comprises the step of:

i) processing each automated clearing house debit against said at least one cash account based on the relative size of its amount.

36. The method of claim 35, wherein step (i) further comprises the step of:

j) processing the smallest debit amounts against said at least one cash account first, leaving larger debits that cannot be satisfied by said at least one cash account to be processed against said at least one credit account.

37. The method of claim 35, wherein step (i) further comprises the step of:

k) processing the largest debit amounts against said at least one cash account first, leaving smaller debits that cannot be satisfied by said at least one cash account to be processed against said at least one credit account.

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38. The method of claim 33, wherein step (g) further comprises the step of:

10 l) processing an entire debit amount against said at least one credit account in the event that there are funds in said at least one cash account that can only cover a percentage of the debit amount.

39. The method of claim 33, wherein step (g) further comprises the step of:

15 m) processing a first percentage of the debit amount against said at least one cash account and a second percentage of the debit amount is processed against said at least one credit account in the event that there are funds in said at least one cash account that cannot satisfy the entire debit amount.

20 40. The method of claim 24, wherein the predetermined cumulative limit is a daily limit.

41. The method of claim 40, wherein step (a) further comprises the step of:

25 n) ceasing to authorize additional transactions attempted with the linked account instrument once the predetermined cumulative limit has been reached.

42. The method of claim 41, further comprising the step of:

o) ceasing to authorize transactions attempted with the linked account instrument if a first sweep of said at least one cash account finds insufficient funds to satisfy previous charges incurred through use of the linked account instrument.

5

43. The method of claim 42, further comprising the step of:
p) clearing said at least one credit account if a subsequent sweep of said at least one cash account finds adequate funds to satisfy those funds temporarily covered by said at least one credit account.

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44. The method of claim 43, further comprising the steps of:
q) refreshing the predetermined cumulative limit; and
r) authorizing transactions after said at least one credit account has been cleared.

15

45. The method of claim 44, further comprising the step of:
s) charging a user of the linked account instrument a fee for use of said at least one credit account.

20

46. The method of claim 42, further comprising the step of:
t) continuing to cease authorization of transactions attempted with the linked account instrument if a predetermined number of subsequent sweeps of said at least one cash account fail to find sufficient funds to satisfy the charges incurred through use of the linked account instrument.

25

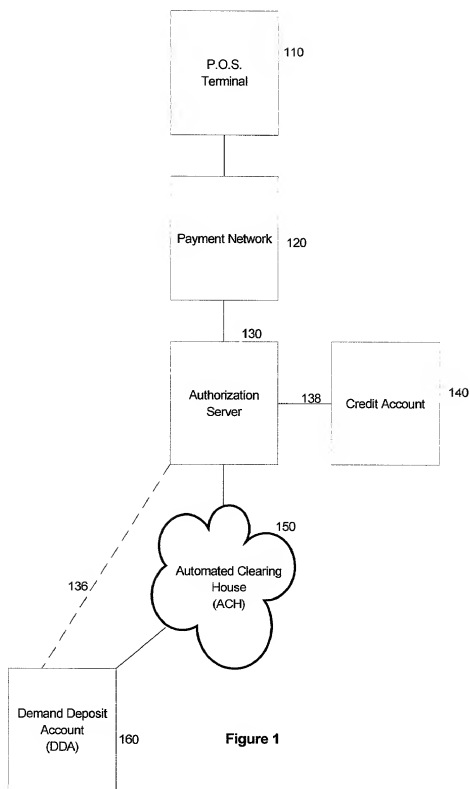
47. The method of claim 41, further comprising the step of:
u) continuing to authorize linked account instrument transactions up to the predetermined cumulative limit against available credit on said at

least one credit account, even if a first sweep of said at least one cash account finds insufficient funds to satisfy previous charges.

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Abstract of the Disclosure

A linked account instrument is used to access funds in an existing demand deposit account held at a financial institution. Merchant or other transactions are first processed against a demand deposit account via an electronic authorization network. If the demand deposit account does not have sufficient funds, the transactions may be processed as a credit charge against an designated credit account. The demand deposit account may subsequently be swept at predetermined times in search of funds to defray the overdraft. If adequate funds are present, they will be withdrawn from the demand deposit account, and the credit account will be cleared. Otherwise, the instrument holder's daily purchasing abilities may be temporarily suspended until the credit account is settled. The processing of overdraft amounts may be on a FIFO, smallest-first or other basis.



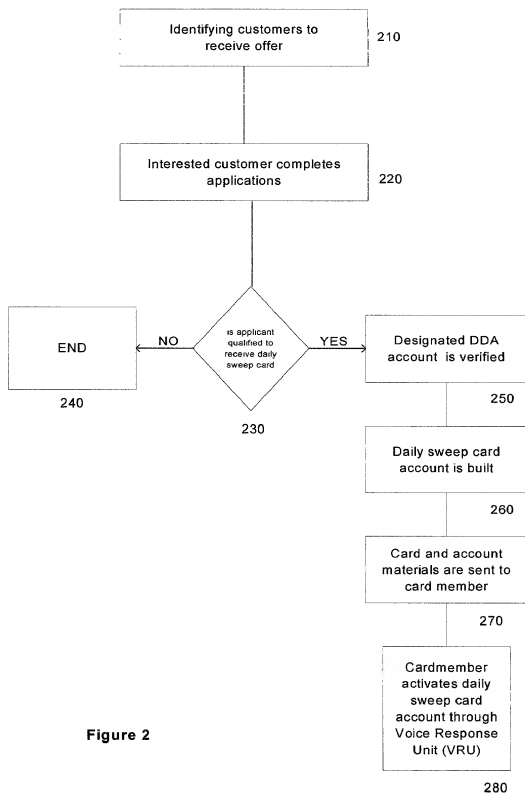


Figure 2

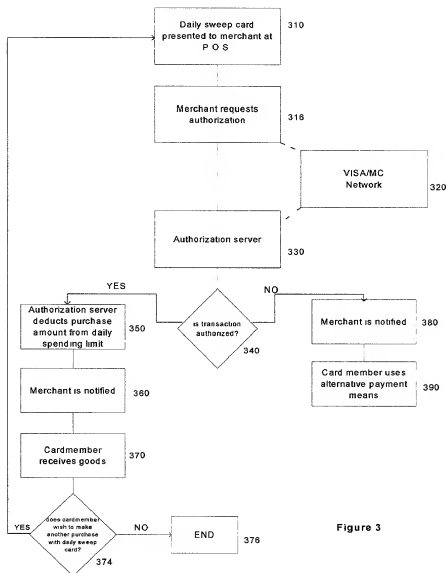
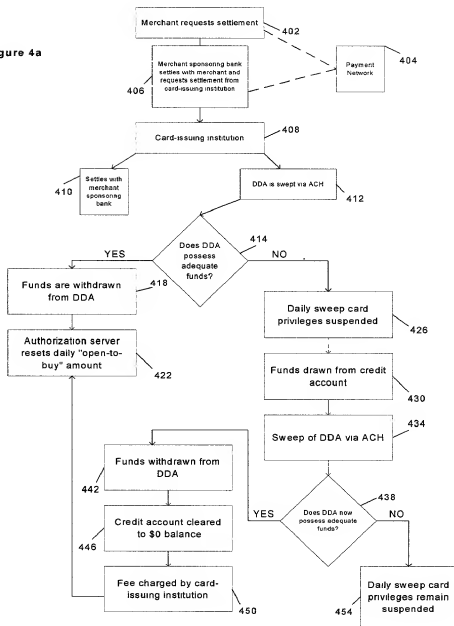


Figure 3

Figure 4a



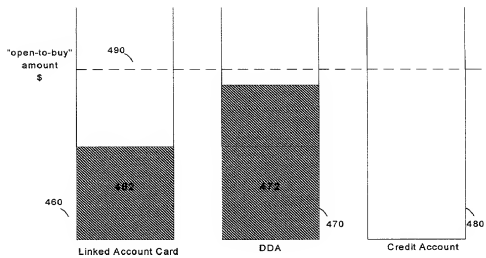


Figure 4b

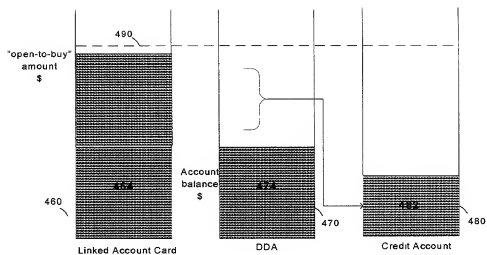
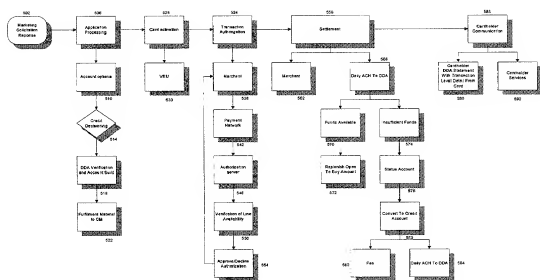


Figure 4c

Figure 5



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Attorney Docket No. 77004.000084

JOINT DECLARATION FOR PATENT APPLICATION AND POWER OF ATTORNEY

As the below named inventors, we hereby declare that:

Our resident and post office addresses and citizenship are as stated below next to our names:

We believe that we are the original, first and joint inventors of the subject matter which is claimed and for which a patent is sought on the invention entitled **System And Method For A Linked Account Having A Sweep Feature**, the specification of which

- ☒ is attached hereto.
☐ was filed on _____ as Application Serial Number _____ and was
 amended on _____
 (if applicable)

We hereby state that we have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to in this declaration.

We acknowledge the duty to disclose all information known to us to be material to the patentability of this application, as defined in 37 C.F.R. § 1.56.

We acknowledge the duty to disclose to the Office all information known to us to be material to patentability as defined in § 1.56, which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

Prior Foreign Application(s)

We hereby claim foreign priority benefits under Title 35, United States Code, § 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application(s) for patent or inventor's certificate having a filing date before that of this application on which priority is claimed:

Country	Application Number	Date of Filing (day, month, year)	Date of Issue (day, month, year)	Priority Claimed Under 35 U.S.C. 119
				Yes <input type="checkbox"/> No <input type="checkbox"/>
				Yes <input type="checkbox"/> No <input type="checkbox"/>

Prior United States Provisional Application(s)

I hereby claim the benefit under Title 35, United States Code, § 119(a) of any United States provisional application(s) listed below

Application Serial Number	Date of Filing (day, month, year)

Prior United States Application(s)

We hereby claim the benefit under Title 36, United States Code, § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, § 112, we acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, § 1.68(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

Application Serial Number	Date of Filing (day, month, year)	Status - Patented, Pending, Abandoned

And we hereby appoint, both jointly and severally, as our attorneys with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith the following attorneys, their registration numbers being listed after their names:

Thomas J. Scott, Jr., Registration No. 27,838; Stanislaus Akeman, Registration No. 28,562; James G. Garzo, Registration No. 32,694; Christopher C. Campbell, Registration No. 37,281; Henry C. Su, Registration No. 37,738; Brian M. Buroker, Registration No. 39,125; Charles F. Hollis, Registration No. 40,660; Jonathan D. Link, Registration No. 41,648; Kevin T. Duncan, Registration No. 41,496; George Georgelis, Registration No. 43,632; Stephen T. Schreiner, Registration No. 43,097; Christopher J. Cuneo, Registration No. 42,400; Raphael A. Valencia, Registration No. 43,218; Scott D. Bakerston, Registration No. 35,436; Steven P. Klocinski, Registration No. 38,261; Yisun Song, Registration No. 44,487; Jennifer A. Albert, Registration No. 32,012; Kerry Owens, Registration No. 37,412; Milan M. Vinnoia, Registration Number 44,379; Devin S. Morgan, Registration No. 48,582; Andrew J. Ririe, Registration No. 48,597; Carl Benson, Registration No. 38,176; Thomas E. Anderson, Registration No. 37,063; Thomas Blasey, Registration No. 33,475; Robin Clark, Registration No. 40,398; René V. Lopez, Registration No. 38,647 and David M. Huntley, Registration No. 40,309.

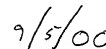
All correspondence and telephone communications should be addressed to Hunton & Williams, 1900 K Street, N.W., Washington, D.C. 20006-1109, telephone number (202) 955-1500, which is also the address and telephone number of each of the above listed attorneys.

We hereby declare that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1007 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Signature



Date



Full Name of

First Inventor

Hunka

Family Name

Jeffrey

First Given Name

L.

Second Given Name

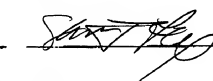
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